

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This month was slightly milder than normal. Monthly precipitation was somewhat below normal in the eastern and central divisions and somewhat above normal in western Maryland. Monthly snowfall was light, except above normal in Carroll and Frederick Counties and heavy in western Maryland. Monthly sunshine was 10% below normal. Westerly gusts of gale force on the 19th caused some minor property damage locally.

Cold periods were 5-10th, 13-14th, 20th-22d, and 27-30th; otherwise, temperatures were mild, except warm during the 16-17th and on the 25th. The coldest day was the 20th.

Precipitation totaled mostly between 2.5 and 3.5 inches, except between 3.5 and 4.5 inches in the Allegheny Mountain region.

Monthly snowfall increased from a trace in the extreme southeast portion of the Eastern Shore westward to 2 to 4 inches at the Potomac River, northwestward to 10 to 16 inches in the Piedmont Plateau, and northward to 5 to 7 inches at the Pennsylvania border; it was between 15 and 24 inches in western Maryland, except 24 to 32 inches in the Allegheny Mountain region.

Light snow fell on the 1st, 4th, 5th, 6th, 9th, 12th, 14-15th, and 19th in the Allegheny Mountain region; snow flurries occurred eastward thereof on the 1st, 4th, 5th, 9th, and 15th. Light snow fell over the section on the 7-8th, 10th, and 29th and in eastern Washington County and the central and eastern divisions on the 30th. Snowfall was heavy, 6 to 10 inches, in Garrett County, moderate in Allegheny County, and light in Washington County on the 26th. Light snow fell over the northern half and snow flurries occurred over the southern half of the section on the 27th. Snowfall was moderate in Carroll County and heavy in Frederick County and western Maryland on the 28th; falls were between 9 and 16 inches in eastern Garrett, Allegany, Washington, and western Frederick Counties.

On the 28th heavy snow fell in western Maryland; light snow, light rain, and heavy sleet, 2 to 4 inches, fell in the northern portion of the central and eastern divisions; and light snow, light sleet, and a heavy freezing rain, producing a thick ice-coat or glaze, fell over the southern portion of the section. The heavy glaze was about 2 inches thick in St. Marys, Charles, Calvert, southern Prince Georges, and lower Anne Arundel Counties and damaged trees and wires; 421 telephone lines and 2,709 telephone stations of The Chesapeake and Potomac Telephone Company were put out of service.

Grains were good and pastures were fair. Activities were butchering, husking corn, pruning fruit trees, hauling manure, stripping tobacco, cutting wood, and cutting timber.—J. B., jr.

TEMPERATURE

The monthly mean for the section, 34.0°, is 0.8° above normal. The highest monthly mean was 39.8° at Salisbury; the lowest, 26.2°, at Mt. Savage Summit. The highest temperature, 79°, occurred at La Plata on the 17th; the lowest, 5° below zero, at Mt. Savage Summit on the 20th. The greatest local monthly range was 69° at Oakland and Sines; the least, 45°, at Dundalk, Elkton and Delaware City.

PRECIPITATION

The monthly average for the section, 2.95 inches, is 0.40 inch below normal. The greatest monthly amount was 4.37 inches at Oakland; the least, 1.96 inches, at Charlotte Hall. The greatest 24-hour amount was 2.00 inches at Baltimore and Solomons on the 28th. The monthly average snowfall for the section, 8.3 inches, is 1.1 inches above normal. The

greatest monthly snowfall was 31.4 inches at Sines. The greatest 24-hour snowfall was 16.1 inches at Williamsport on the 27-28th.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—11, 12, 27. Fogs, light and dense.—1 to 4, 7 to 10, 17 to 19, 23 to 26, 28 to 31. Glaze, light.—27, 28. Glaze, heavy.—Southern portion of section, 28. Halos, lunar.—15, 17, 25. Halo, solar.—21. Sleet, light.—1, 26, 27, 28, 29, 30. Sleet, heavy.—Northeast portion of section, 28. Thunderstorms.—17, 18, 19. Winds, high.—4, 12, 15, 19, 20.

PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

| Stations | Atmospheric pressure reduced to sea level | | | | Wind | | | | Mean relative humidity | | | Percentage of sunshine | Heating degree days (base 65°) |
|------------------------|---|------|--------|------|-------------------------|------------------|-----------|------|------------------------|------------|------------|------------------------|--------------------------------|
| | Highest | Date | Lowest | Date | Average hourly velocity | Maximum velocity | Direction | Date | 7:30 a. m. | 1:30 p. m. | 7:30 p. m. | | |
| Aberdeen, Md. | 30.64 | 20 | 29.50 | 15 | 8.9 | ... | ... | ... | 77 | 66 | 73 | ... | 985 |
| Annapolis, Md. | 30.65 | 20 | 29.48 | 15 | 10.0 | ... | ... | ... | 83 | ... | 78 | ... | 963 |
| Baltimore, Md. | 30.66 | 20 | 29.49 | 15 | 9.8 | 42 | sw. | 19 | 77 | 65 | 73 | 41 | 932 |
| Elkins, W. Va. | 30.70 | 20 | 29.52 | 14 | 7.3 | 33 | nw. | 4 | 85 | 65 | 78 | 34 | 921 |
| Harrisburg, Pa. | 30.60 | 20 | 29.44 | 15 | 7.7 | 38 | nw. | 4 | 78 | 62 | 71 | 33 | 1061 |
| Norfolk, Va. | 30.70 | 20 | 29.62 | 15 | 10.2 | 33 | sw. | 19 | 86 | 65 | 76 | 50 | 675 |
| Philadelphia, Pa. | 30.57 | 20 | 29.48 | 15 | 9.8 | 37 | nw. | 19 | 76 | 61 | 69 | 31 | 1002 |
| Pittsburgh, Pa. | 30.68 | 20 | 29.42 | 15 | 11.4 | 45 | nw. | 4 | 85 | 74 | 79 | 24 | 985 |
| Washington, D. C. ... | 30.69 | 20 | 29.49 | 15 | 7.7 | 43 | nw. | 19 | 78 | 64 | 67 | 41 | 894 |

COMPARATIVE DATA FOR JANUARY

| Year | FOR MARYLAND | | | | | | FOR DELAWARE | | | | | |
|--------|--------------|---------|--------|---------------|------------------|----------------------------------|--------------|---------|--------|---------------|------------------|----------------------------------|
| | Temperature | | | Precipitation | | | Temperature | | | Precipitation | | |
| | Mean | Highest | Lowest | Average | Average snowfall | No. of days with .01 in. or more | Mean | Highest | Lowest | Average | Average snowfall | No. of days with .01 in. or more |
| 1895 | 29.5 | 66 | -17 | 4.35 | 13.4 | 11 | 31.6 | 65 | -7 | 5.09 | 6.8 | 12 |
| 1896 | 32.0 | 66 | -13 | 1.82 | 1.0 | 4 | 32.0 | 65 | -4 | 1.82 | 0.6 | 6 |
| 1897 | 29.1 | 66 | -12 | 1.94 | 8.1 | 7 | 31.7 | 64 | -5 | 2.00 | 10.3 | 11 |
| 1898 | 35.3 | 72 | -2 | 3.60 | 5.8 | 11 | 35.7 | 66 | -1 | 3.25 | 0.8 | 11 |
| 1899 | 31.9 | 70 | -24 | 3.30 | 5.7 | 10 | 34.2 | 65 | -1 | 3.65 | 7.8 | 11 |
| 1900 | 33.6 | 69 | -8 | 2.34 | 1.8 | 7 | 34.3 | 62 | 6 | 3.34 | 1.5 | 6 |
| 1901 | 32.5 | 68 | -4 | 2.68 | 8.5 | 7 | 33.5 | 68 | 6 | 2.94 | 5.5 | 6 |
| 1902 | 29.8 | 59 | -7 | 3.52 | 10.2 | 8 | 31.5 | 64 | -8 | 3.64 | 5.2 | 8 |
| 1903 | 31.4 | 62 | -6 | 4.02 | 6.7 | 9 | 33.6 | 60 | -8 | 3.73 | 4.2 | 8 |
| 1904 | 25.7 | 64 | -20 | 2.59 | 15.3 | 10 | 28.6 | 63 | -10 | 2.05 | 8.1 | 10 |
| 1905 | 28.6 | 69 | -14 | 3.66 | 17.0 | 11 | 29.5 | 63 | -6 | 4.14 | 19.3 | 10 |
| 1906 | 38.7 | 75 | -6 | 2.85 | 2.3 | 10 | 40.5 | 76 | -5 | 3.08 | 2.0 | 11 |
| 1907 | 35.6 | 76 | -19 | 3.18 | 6.2 | 12 | 37.5 | 77 | -3 | 3.36 | 3.6 | 12 |
| 1908 | 32.6 | 63 | -21 | 3.24 | 7.1 | 8 | 34.3 | 63 | -5 | 3.37 | 6.1 | 8 |
| 1909 | 34.9 | 69 | -3 | 2.74 | 6.1 | 10 | 35.1 | 71 | -10 | 2.84 | 4.1 | 9 |
| 1910 | 31.9 | 69 | -12 | 4.38 | 12.9 | 12 | 33.5 | 65 | 6 | 4.07 | 3.0 | 10 |
| 1911 | 36.7 | 76 | -5 | 3.96 | 4.3 | 12 | 38.6 | 68 | 11 | 4.14 | 2.6 | 11 |
| 1912 | 23.7 | 60 | -40 | 2.50 | 15.5 | 10 | 26.5 | 59 | -4 | 3.48 | 15.0 | 11 |
| 1913 | 41.5 | 74 | 8 | 3.17 | 1.6 | 13 | 44.3 | 71 | 22 | 3.23 | T. | 12 |
| 1914 | 35.9 | 76 | -14 | 3.95 | 4.2 | 7 | 37.6 | 74 | 0 | 3.20 | 0.1 | 6 |
| 1915 | 33.7 | 66 | -10 | 5.90 | 6.7 | 12 | 37.2 | 67 | 15 | 5.65 | 1.5 | 12 |
| 1916 | 37.9 | 74 | -11 | 1.77 | 3.2 | 11 | 38.8 | 73 | -1 | 1.60 | 3.1 | 9 |
| 1917 | 33.3 | 66 | 0 | 3.07 | 4.4 | 11 | 34.0 | 64 | -9 | 3.02 | 1.5 | 9 |
| 1918 | 21.2 | 61 | -30 | 4.24 | 24.0 | 10 | 22.9 | 58 | -9 | 4.25 | 21.7 | 10 |
| 1919 | 36.0 | 66 | -19 | 3.42 | 2.7 | 7 | 37.2 | 65 | -2 | 3.94 | 1.1 | 8 |
| 1920 | 27.8 | 64 | -10 | 2.40 | 2.9 | 10 | 28.2 | 64 | 5 | 2.95 | 2.1 | 11 |
| 1921 | 35.5 | 70 | -5 | 2.27 | 1.5 | 8 | 37.1 | 66 | 4 | 2.40 | 0.1 | 7 |
| 1922 | 30.1 | 63 | -15 | 3.96 | 23.0 | 9 | 31.4 | 60 | 6 | 4.01 | 17.3 | 9 |
| 1923 | 34.7 | 68 | 0 | 4.12 | 6.5 | 12 | 35.9 | 67 | 13 | 4.64 | 2.2 | 10 |
| 1924 | 33.4 | 66 | -10 | 4.07 | 1.8 | 7 | 35.6 | 67 | -1 | 3.93 | T. | 7 |
| 1925 | 30.9 | 63 | -31 | 4.30 | 19.3 | 12 | 33.5 | 62 | -1 | 5.36 | 7.9 | 12 |
| 1926 | 32.2 | 72 | -11 | 3.12 | 4.6 | 10 | 34.2 | 65 | 5 | 2.94 | 1.1 | 10 |
| 1927 | 32.5 | 78 | -5 | 1.60 | 2.1 | 11 | 33.7 | 73 | 2 | 1.57 | 4.6 | 10 |
| 1928 | 34.2 | 72 | -11 | 2.48 | 9.4 | 7 | 35.2 | 71 | -11 | 2.87 | 12.6 | 8 |
| 1929 | 32.6 | 69 | -18 | 2.68 | 2.3 | 10 | 34.7 | 67 | 6 | 2.68 | 0.9 | 9 |
| 1930 | 33.8 | 75 | -17 | 2.67 | 11.6 | 11 | 36.4 | 75 | 4 | 3.46 | 8.2 | 12 |
| 1931 | 34.4 | 66 | -8 | 1.64 | 1.5 | 5 | 36.0 | 65 | 12 | 2.07 | 0.3 | 5 |
| 1932 | 44.4 | 80 | 13 | 4.98 | 1.1 | 12 | 46.4 | 77 | 22 | 5.56 | 1.2 | 11 |
| 1933 | 40.8 | 70 | 4 | 3.11 | 1.5 | 9 | 42.3 | 68 | 14 | 3.81 | 8 | 9 |
| 1934 | 37.1 | 70 | -6 | 2.52 | 0.5 | 9 | 38.4 | 66 | 3 | 3.26 | T. | 9 |
| 1935 | 31.2 | 71 | -23 | 4.67 | 20.4 | 11 | 33.4 | 70 | -7 | 5.49 | 16.8 | 11 |
| 1936 | 27.8 | 62 | -20 | 5.87 | 9.7 | 15 | 30.8 | 61 | -5 | 5.23 | 2.3 | 13 |
| 1937 | 41.6 | 77 | 11 | 7.43 | 1.1 | 17 | 44.3 | 72 | 23 | 8.27 | T. | 19 |
| 1938 | 33.5 | 67 | -2 | 2.26 | 2.3 | 11 | 35.0 | 62 | 7 | 2.74 | 0.9 | 13 |
| 1939 | 35.0 | 69 | -7 | 3.65 | 11.8 | 11 | 35.9 | 65 | 4 | 3.81 | 9.9 | 12 |
| 1940 | 22.3 | 59 | -14 | 2.26 | 15.6 | 7 | 23.6 | 59 | 0 | 2.20 | 16.1 | 6 |
| 1941 | 32.0 | 62 | -10 | 3.04 | 6.1 | 11 | 33.3 | 59 | 7 | 3.56 | 3.3 | 11 |
| 1942 | 32.4 | 66 | -19 | 2.48 | 4.4 | 8 | 33.0 | 66 | -14 | 2.85 | 3.4 | 8 |
| 1943 | 33.9 | 79 | -5 | 2.95 | 8.9 | 11 | 34.5 | 71 | 11 | 2.92 | 4.1 | 9 |
| Period | 33.0 | 80 | -40 | 3.33 | 7.4 | 10 | 34.7 | 77 | -14 | 3.54 | 5.1 | 10 |

Climatological Data for January 1943

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Greatest in 24 hours, Date, Total snowfall, With precip. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS. Includes data for Maryland, District of Columbia, and Delaware.

The departures from normal temperatures are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. Data in italics determined from surrounding stations. Precipitation is less than 0.01 inch rain or melted snow.

Post addresses of these stations are as follows: Of Bell, Glenndale; of Blackwater, Cambridge; of Coleman, Worton; of Edgemont, Smithsburg; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Pearsy, Paw Paw, Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland; of Tonoloway, Hancock. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡2 miles northwest of Frostburg. §§Municipal Building. §§§Porter Reservoir. ||Water Pumping Station. |||University Farm.

Thermometers are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Sines, and Washington are from midnight to midnight; at Dundalk, Mt. Savage Summit, Ocean City, and Snow Hill the thermometers are read at 1:30 a. m. the extremes are charged to the preceding day; other stations, except Blackwater, Cheltenham, College Park, Conowingo Dam, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset.

Daily Precipitation for January 1943

Table with columns: Stations, Drainage basin, Day of month (1-31), Total. Rows include Maryland stations like Aberdeen, Annapolis, Baltimore, etc., and Delaware stations like Bridgeville, Delaware City, Dover, etc.

Except as otherwise indicated, observations are generally made late in afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.
1 First-order Weather Bureau station: precipitation is for the 24-hour period, midnight to midnight. 2 Precipitation is for 24-hour period, midnight to midnight.
3 Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours. 4 Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day. 5 Precipitation is measured with recording gage. 6 Precipitation is included in the next measurement. T Trace, or precipitation is less than .01 inch. \$ Two miles northwest of Frostburg. §§ Municipal Building. §§§ Porter Reservoir. §§§§ Water Pumping Station. §§§§§ University Farm.

Daily Temperatures for January 1943

Table with columns: Stations, Day of month (1-31), Mean. Rows include Delaware stations like Bridgeville, Delaware City, Dover, Milford, Millsboro, Newark, Wilmington, and District of Columbia Washington.

Daily Temperatures for January 1943-Continued

Table with columns for Stations (Maryland), days 1-31, and Mean. Rows list various locations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature data.

See page 2 for explanation of reference marks.